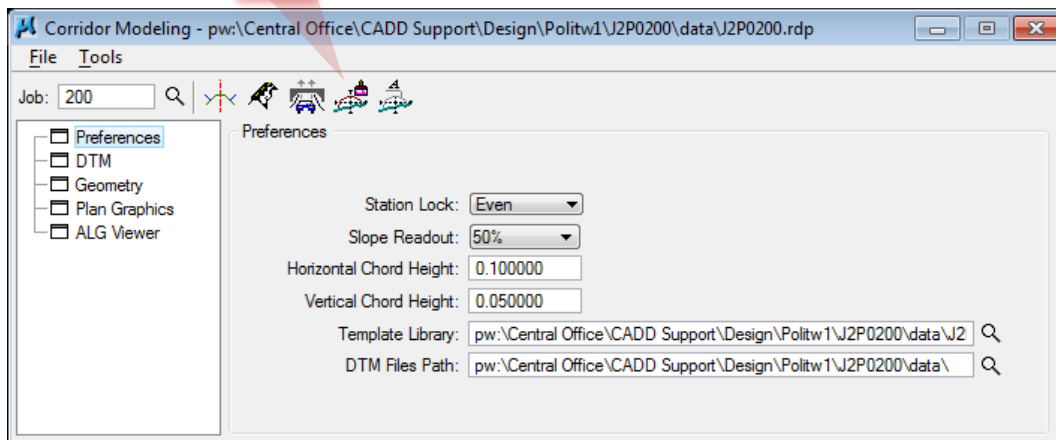


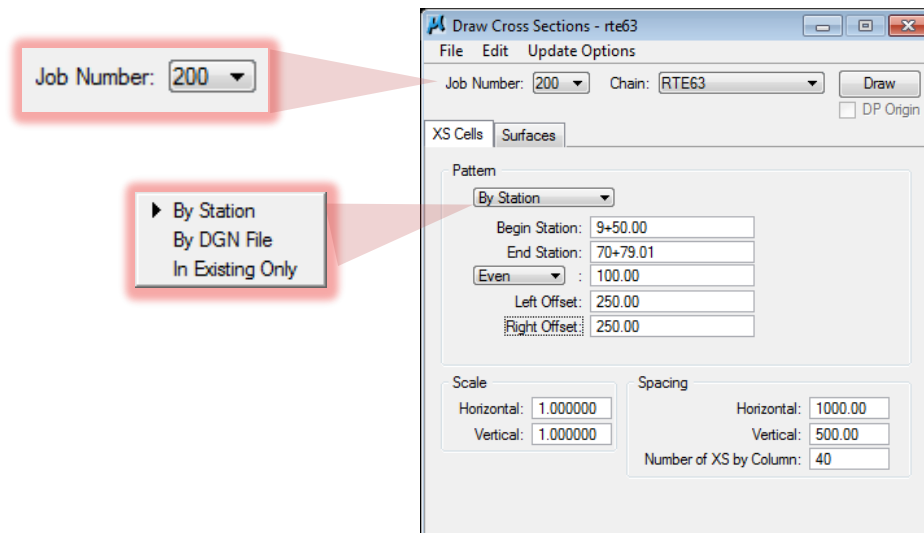
Workflow: Plotting Cross Sections using Roadway Designer

Existing cross sections

1. Open the Corridor Manager tool, select the Draw Cross Sections from Surfaces tool and Copy the MoDOT run.

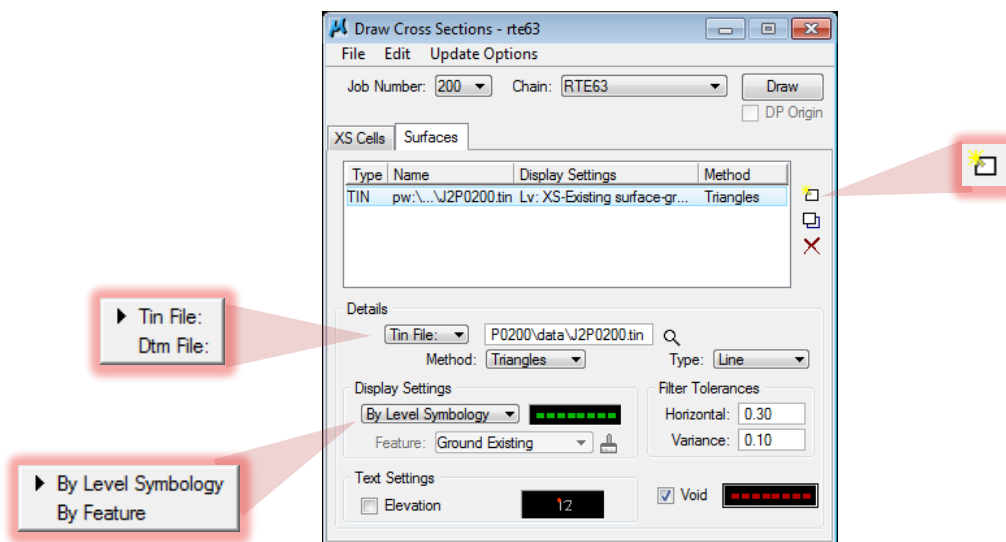


2. XS Cells tab –
 - a. Choose the Job Number representing the gpk and the preferred Chain.
 - b. Pattern Option 1 – **By Station** – Use this option if you want to use stationing to define where the cross sections will be cut.
 - c. Pattern Option 2 – **By DGN File** – Use this option if you have created pattern lines in the pattern_shape file to define where the location of the cross sections will be cut.
 - d. Pattern Option 3 – **In Existing Only** – This option is used when placing proposed cross sections and not so much with existing cross sections as it will scan for existing Geopak cross section cells.

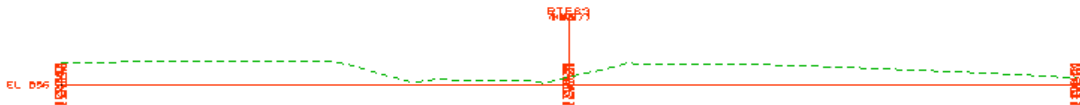


3. Surfaces tab-

- a. Details section – Toggle the Tin file option and choose the tin file to define the existing ground.
- b. Display Settings – There are two options here.
 - i. Option 1 – By feature – This will allow the use of the D & C Manager to access the level, color, style and weight of the existing ground.
 - ii. Option 2 – By Level Symbology – This option allows the user to set the symbology manually. The important part of this tool is that the level is set to the correct level of XS-Existing surface-ground.
 - iii. Void toggle – Copy the attributes from the Display Settings and paste them into the Void attributes box. Change the color to something to differentiate from the green existing ground.
- c. Add the information to the field above.



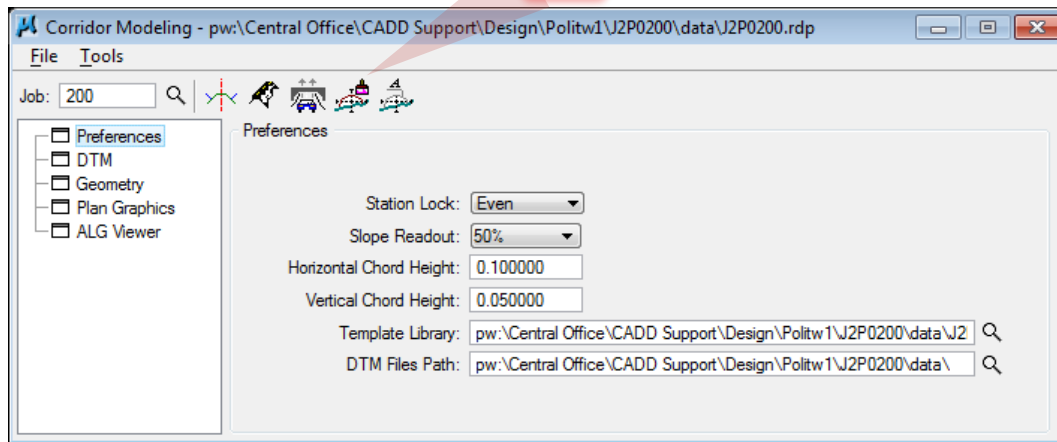
4. Click the Draw button to place the existing ground cross sections in the design file.



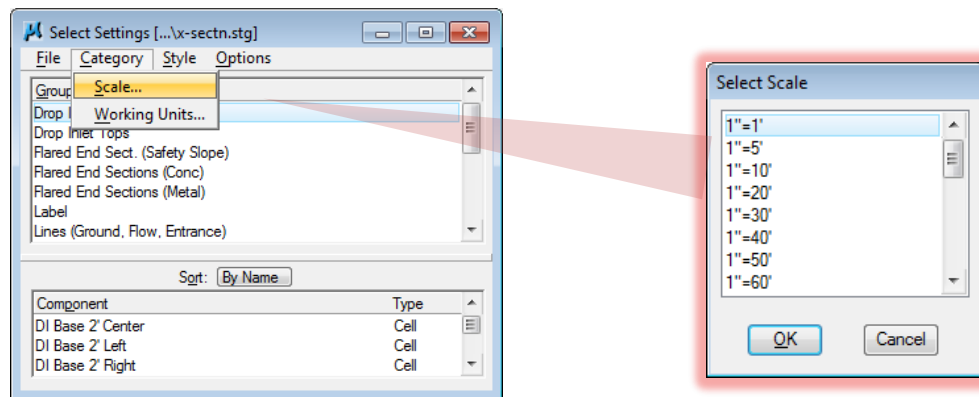
5. (OPTIONAL) Select all the elements and lock them down.
6. **Save** the file and **EXIT MicroStation** (saving all changes if needed)
7. **Check-In** ALL files back into ProjectWise.

Proposed cross sections

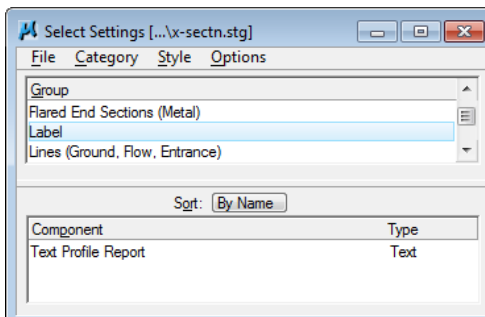
1. Open the Corridor Manager tool, select the Draw Cross Sections from Surfaces tool and Open the MoDOT run previously created run.



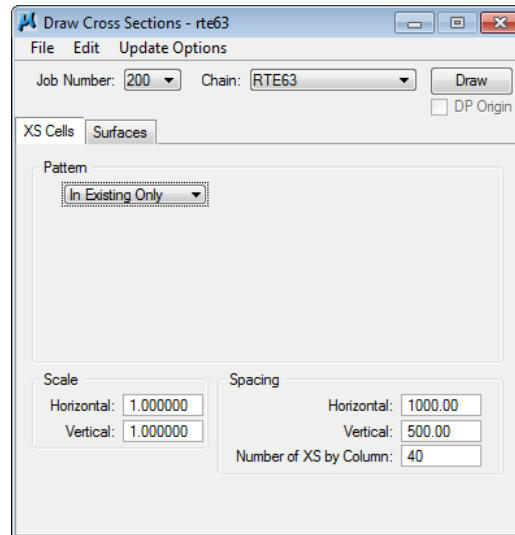
2. Open the X-Sections/Culver Sheets Settings manager located in the Design drop down menu.
3. Under the Category drop down select Scale and the scale to 1"=1'. *Verify by clicking the Okay button and not the close button.



4. Set the attributes and test size for the proposed cross section component names by selecting the Label group to open and select the component option of Text Profile Report.



5. XS Cells tab –
 - a. Verify the Job Number and the Chain
 - b. Pattern Option – In Existing Only



6. Surfaces tab –
 - c. Details section – Toggle the Dtm option then browse to ProjectWise and select the dtm file of the created surface. *An important tip is to make sure that the dtm chosen has been previously checked into ProjectWise.*
 - d. Add the information to the field above.
7. Click the “Draw” button to place the cross sections (both existing and proposed) into the dgn file.

